**State Transition Diagram of ATM SYSTEM**

**INVALID CARD**

READING CARD

**CARD READ SUCCESSFULLY** **INVALID PIN**

READING PIN

GG **CANCEL TRANSACTION**

**GETTING VALID PIN**

CHOOSING TRANSACTION

EJECTING CARD

**TRANSACTION CHOOSEN**

PERFORMING TRANSACTION

**FINISHED TRANSACTION**

**ANOTHER TRANSACTION**

**EVENTS OR ACTIONS**: CARD READ SUCCESSFULLY, INVALID CARD, GETTING VALID PIN, INVALID PIN, TRANSACTION CHOOSEN, CANCEL TRANSACTION, ANOTHER TRANSACTION, FINISHED TRANSACTION.

NO

**STATES**: READING CARD, READING PIN, CHOOSING TRANSACTION, PERFORMING TRANSACTION, EJECTING CARD.

**Use Case For ATM**

* Use Case Name: Cash Withdrawal
* Actor: Customer , Bank
* Description : This Use Case Describes how the Customer uses the ATM system to withdraw cash from his/her bank account.

Pre –Conditions

1) The ATM system is online

2) ATM system has sufficient cash available

Normal Workflow

1) The Customer will insert their debit card

2) The system will Prompt for the PIN

3) The customer will enter the PIN

4) The system will display the option to “withdraw cash”

5) The customer will select the option to withdraw cash

6) The system will prompt for an amount

7) The customer will enter an amount

8) The system will submit the amount to the bank for approval

9) The bank will confirm the transaction

10) The system will disperse the cash amount

11) The system will return the card

12) The use case ends with a success.

Alternate Workflows

4 a) If the PIN is invalid

1) The system will return the card

2) The use case ends with a failure

8 a) If the amount is invalid

1) The system will display an error message and prompt for another amount

2) The use case resume at step 7

10 a) If the bank declines the transaction

1. The system will return the card
2. The use case ends with a failure

Additional business rules: The system will disperse a maximum amount of $100 in a single transaction.

Post – Condition : The customer will receive the cash amount.

**Use Case for online shopping wrist watch**

* Use case name: Online shopping wrist watch
* Actor : User , Administrator
* Description : This use case describes how the User shop the wrist watch online

Pre-Condition :

1. The user should have application
2. Suitable Product should be available

Normal work flow

1. User Should launch the application
2. User should create account with valid email id and password
3. User will search for different brands of wrist watch
4. User search for watch design
5. User select best suitable wrist watch for delivery
6. User select quantity
7. User check guarantee card of wrist watch
8. User select time period
9. User select location
10. User select Payment Method
11. User check security
12. User Ordered the Product Successfully
13. Use case ends with a success

Alternate Workflow

2 a) If email id is invalid

1. User cannot able to login into application
2. System will show invalid email id
3. Use case ends up with failure

Additional business rule : User can shop only if the product is available for his/her location

Post condition : User will receive the product within the mentioned time period.